Canon

Windows

Picture Style File Creating Software

Picture Style Editor

Ver. 1.2

Instruction Manual

Content of this Instruction Manual

- PSE is used for Picture Style Editor.
- In this manual, the windows used in the examples are from Windows XP.
- ▸ indicates the selection procedure of the menu. (Example: [File] menu ▸ [Exit].)
- Square brackets are used to indicate items such as menu names, button names and window names that appear on the computer screen.
- Text inside < > indicates a key on the keyboard.
- ** indicates a reference page. Click to move to the relevant page.
- : Marks information that should be read before use.
- : Marks additional information you may find helpful.

Switching Between Pages

- Click on arrows on the bottom right of the screen.
  - : next page
  - : previous page
  - : return to a page you had previously displayed
- Click on the headings on the right side of the screen to switch to the contents page of that heading. Also, click the item you want to read about on the table of contents to move to the relevant page.

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Introduction

Picture Style Editor (hereinafter, “PSE”) is software that allows you to edit Picture Style to your unique image characteristics and save the edited results as original Picture Style files.

What is a Picture Style file?

A Picture Style file (extension “.PF2”) is an extended function of a Picture Style. It differs from the 6 preset Picture Styles (Standard, Portrait, Landscape, Neutral, Faithful and Monochrome) and provides image characteristics that are effective in a very limited number of scenes.

Main Features of PSE

With PSE, you can use the functions below to edit Picture Style to your unique image characteristics and save the edited results as original Picture Style files (extension “.PF2”).

- Select a Picture Style to be used as a basis for your images
- Set the [Sharpness], [Contrast], [Color saturation] and [Color tone]
- Make minute adjustments to a specific color
- Adjust the brightness and contrast (gamma characteristic)

In addition, you can register the original Picture Style files you have saved to a camera with a Picture Style function and apply them to shot images. You can also use Digital Photo Professional or RAW Image Task to apply them to RAW images.

Color management

Use PSE in a computer environment with color management.
Also, set the profile of the monitor you are using and the color space of the sample image to be used to perform the adjustments, etc. in the preferences window (p.16).

System Requirements

OS	Windows Vista*1 Windows XP Professional/Home Edition*2 Windows 2000 Professional*3	
Computer	PC with one of the above OS preinstalled (Upgraded machines not supported) * .NET Framework 2.0 or later is required.*4	
CPU	Windows Vista	1.3GHz Pentium or higher
	Windows XP, 2000	750MHz Pentium or higher
RAM	Windows Vista	Minimum 1GB
	Windows XP, 2000	Minimum 512MB
Display	Screen resolution: 1024 × 768 pixels or more Color quality: Medium (16 bit) or more	

*1 Compatible with 32-bit/64-bit systems for all versions except Starter Edition
*2 Compatible with Service Pack 2
*3 Compatible with Service Pack 4
*4 .NET Framework is Microsoft software. It is installed together with PSE.

Sample Images for Adjustment

With PSE, you can use RAW images from the following camera models as sample images for adjustment and save the adjusted results as original Picture Style files.

EOS-1Ds Mark III	EOS-1D Mark III	EOS-1D Mark II N
EOS-1Ds Mark II	EOS-1D Mark II	EOS-1Ds
EOS-1D	EOS 5D	EOS 40D
EOS 30D	EOS 20D	EOS 10D
EOS DIGITAL REBEL XSi/450D	EOS DIGITAL REBEL XTi/400D DIGITAL	EOS DIGITAL REBEL XT/350D DIGITAL
EOS DIGITAL REBEL /300D DIGITAL	EOS D60	EOS D30
EOS D6000*	EOS D2000*	–

* Images converted to RAW images that have the “.CR2” extension in CR2 Converter. For information on CR2 Converter, refer to Canon’s web site.

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Preparing Sample Images

PSE uses a sample image to perform the various adjustments and save the adjusted results as an original Picture Style file. For this reason, a sample image (p.2) to be used for this purpose needs to be prepared in advance and saved on your computer.

The settings performed in PSE are saved as a Picture Style file (p.15) which is separate from the sample image, and the sample image used to perform the adjustments itself is not affected at all.

Starting up PSE

Double-click the [Picture Style Editor] icon on the desktop.

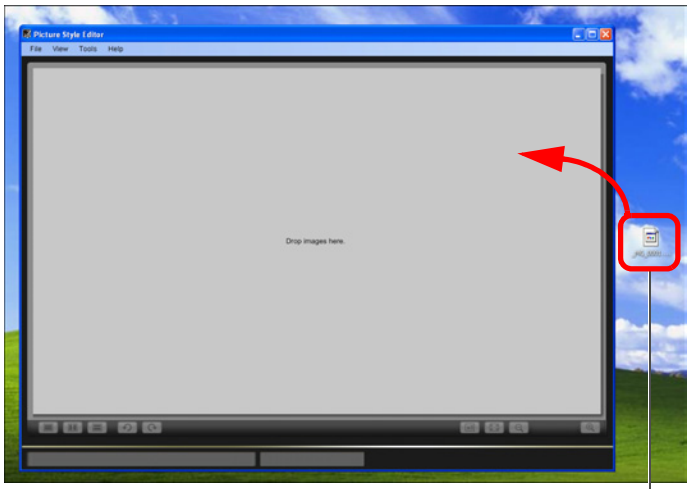
➜The main window (Description on the right) appears when PSE starts up.

You can also start up PSE from the camera software “EOS Utility”. Refer to the “Function for Use with the Accessories” of “Reference” in “EOS Utility Instruction Manual” (PDF electronic manual) for details.

Opening a Sample Image

Open a sample image and perform various adjustments with that image as a basis.

Drag and drop a sample image to the main window.



➜The sample image is displayed in the main window with the camera settings at the time of shooting.

➜The [Tool palette] appears.

A RAW image that has been adjusted with Digital Photo Professional (hereinafter, “DPP”) or RAW Image Task (hereinafter, “RIT”) and is then opened as a sample image with PSE will not have the adjustments made in DPP or RIT applied to it.

Basic Windows

Main Window

You can select the display magnification and the display method, etc. of the sample image.

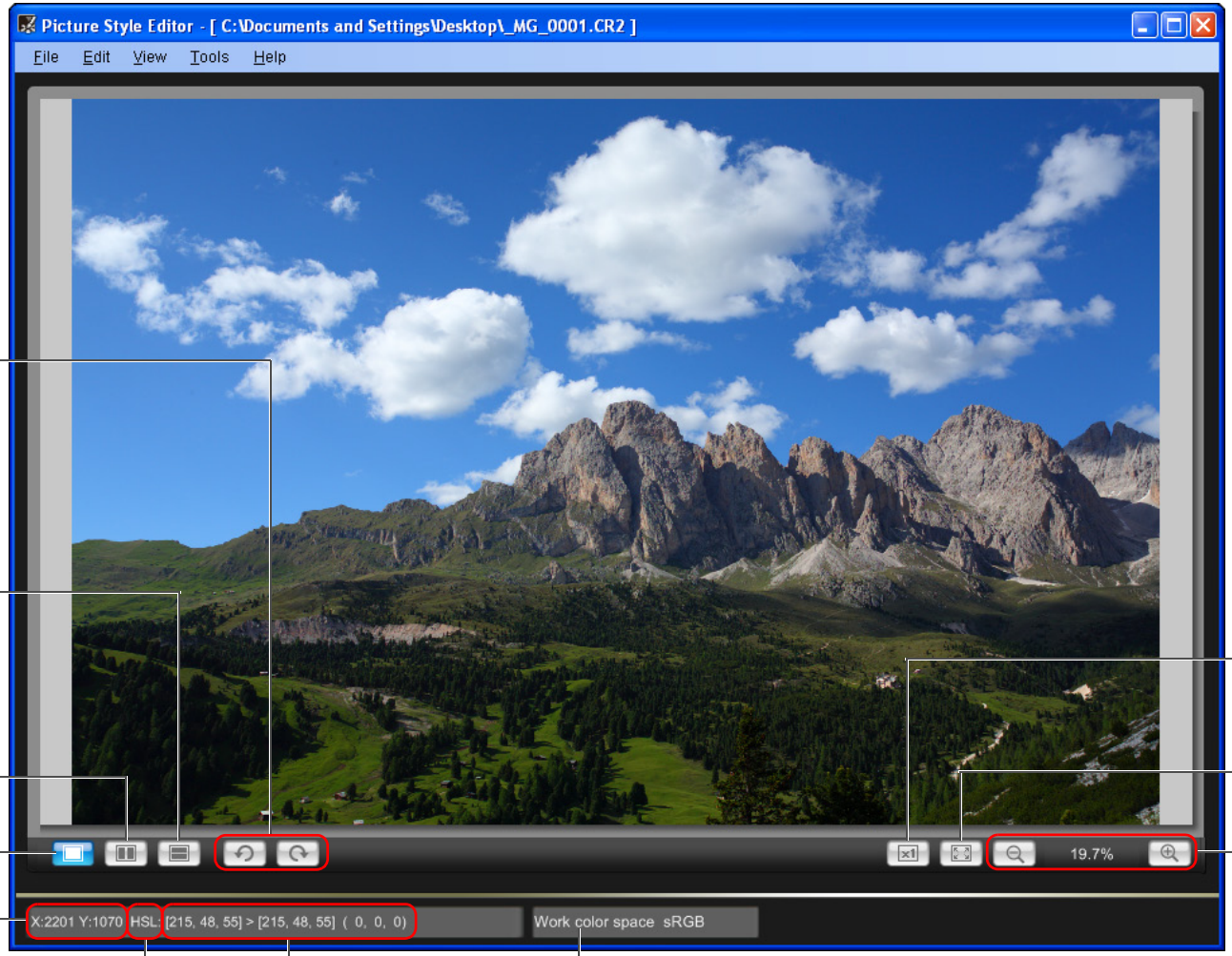

Picture Style Editor - [C:\Documents and Settings\Desktop_MG_0001.CR2]
File Edit View Tools Help
19.7%
X:2201 Y:1070
HSL
[215, 48, 55] > [215, 48, 55] (0, 0, 0)
Work color space sRGB

Image rotation (90 degree units to the left or right)

Before and after adjustment comparison display (Top/bottom split) (p.6)

Before and after adjustment comparison display (Left/right split) (p.6)

Normal screen

Cursor coordinates position

100% (actual pixel size) view

Full view

Display magnification (5 ratios: 12.5%, 25%, 50%, 100% and 200%)

Work color space display (p.16)

Color values of the cursor position (Before adjustment/after adjustment/ difference between before and after adjustment) (8-bit conversion)

Color display mode (p.8, p.14)

Enlarging a Specific Area

You can enlarge a specific area in the main window to 100%.

In the main window, double-click the area you want to enlarge.

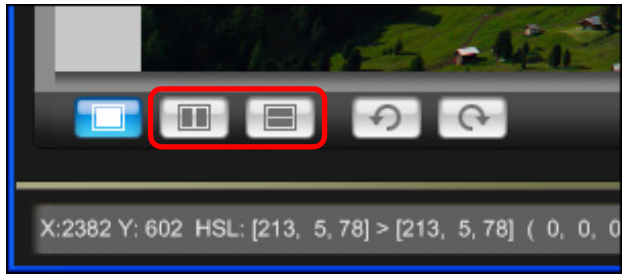
➜The area you double-clicked is enlarged to 100% (actual pixel size). If you wait for a while, it changes to a clearer display.

- To change the display position, drag on the image or drag the enlargement display position (p.7) in the [Navigator] window.
- Double-click again to revert to the full view.

Adjusting While Comparing with the Original Image

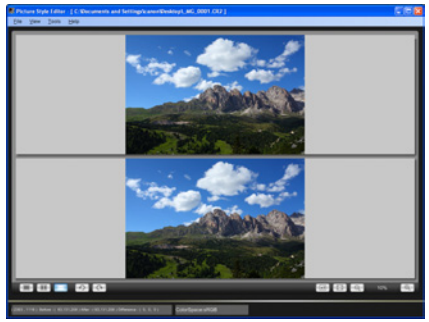
You can display before and after versions of an adjusted image in the same window and perform adjustments while checking the adjustment results.

Select [ ] or [ ].



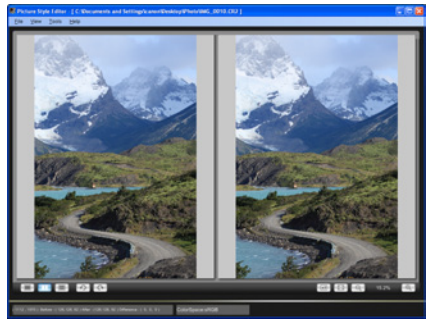
➜The image is displayed split top and bottom or left and right.

[ ] (Top/bottom split) display



- The image is displayed before adjustment at the top, and after adjustment at the bottom.

[ ] (Left/right split) display



- The image is displayed before adjustment on the left, and after adjustment on the right.

Navigator Window

In the main window, the display position of an image when it is enlarged and the image histogram are displayed. You can also set warning indicators to prevent excessive settings being made.

Displaying the [Navigator] window.

- Select the [View] menu ▸ [Navigator].

Enlargement display position (p.6)
Move the display position by dragging

Switches the histogram display

Histogram

Warning indicator setting

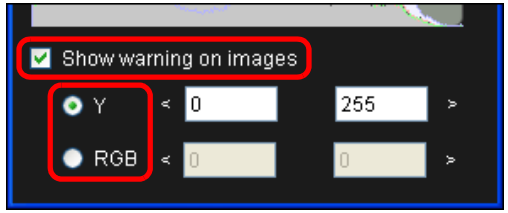
Warning range

[Y] in the histogram display indicates luminance.

Setting the Warning Indicators

You can set warning indicators for luminance values (Y) and color values (RGB) which are useful for preventing excessive settings being made. Luminance and color value domains which are outside the set range blink as warning indicators on images in the main window.

1 Checkmark [Show warning on images] and select [Y] or [RGB].



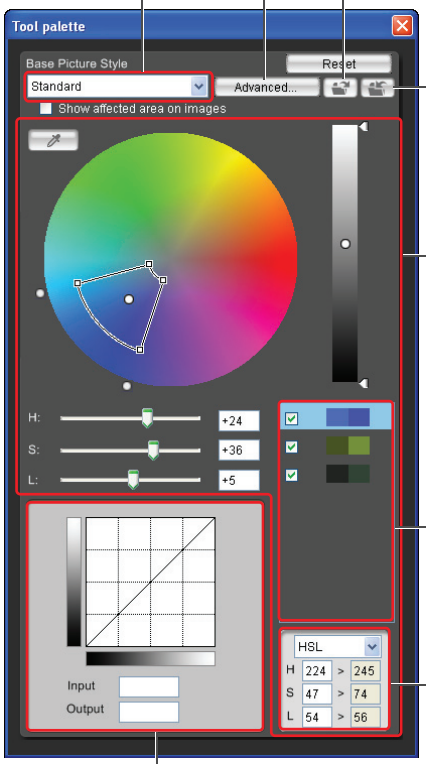
2 Enter the upper and lower limit values of the warning range.

➜ The domain where values are outside the upper and lower limit of the range blinks on the image in the main window.

- To stop the warning indicators, remove the check mark from the [Show warning on images] checkbox.

Tool Palette

You can adjust the image characteristics of the Picture Style file by using the various functions of the [Tool palette].
Because the adjustments made with the [Tool palette] are immediately applied to the image in the main window, you can check the results as you work.



Select a Picture Style to be used as a basis (p.9)

Sharpness, Contrast, Color saturation, Color tone settings (p.10)

Load a Picture Style file (p.10)

Save a Picture Style file (p.15)

Minute adjustments to a specified color (p.11)

Adjustment color list (p.13)

Color display mode (p.14)

Adjust the brightness and contrast (gamma characteristic) (p.14)

You can select the [View] menu ▸ [Tool palette] to alternate the [Tool palette] show/hide.

Pre-adjusting the Images

Sample images used in the adjustment process (p.2) which do not have proper exposure or white balance can be adjusted using the [Preliminary adjustment] window to correct their brightness and white balance.
However, please remember that adjustments made with the [Preliminary adjustment] window are merely pre-adjustments for correcting adjustments made with the [Tool palette] (Description on the left). For this reason, adjustments made with the [Preliminary adjustment] window are not saved in the Picture Style file which you create.
If the sample image used for making the adjustments has proper exposure and white balance, you do not have to make adjustments with the [Preliminary adjustment] window.

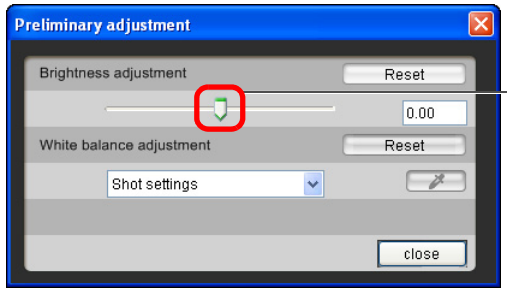
Correcting the Brightness

1 Select the [Tools] menu ▸ [Preliminary adjustment].

➜ The [Preliminary adjustment] window appears.

● When the [Preliminary adjustment] window appears, the display switches to normal display, even if the main window display is showing a comparison of an image before and after adjustment (p.6).

2 Adjust to correct the brightness of the image.

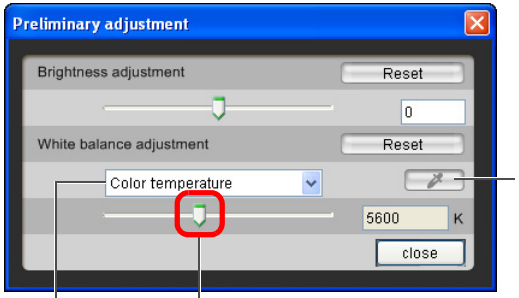


Drag to the left or right to adjust

➜ The adjustments are applied to the image.

Correcting the White Balance

Adjust to correct the white balance.



Click white balance
Click the [ ] button and then click on a point that is to be the standard for white

The color temperature slider
Select [Color temperature] from the white balance list box, and then drag the slider left or right

Select the white balance

➜The adjustments are applied to the image.

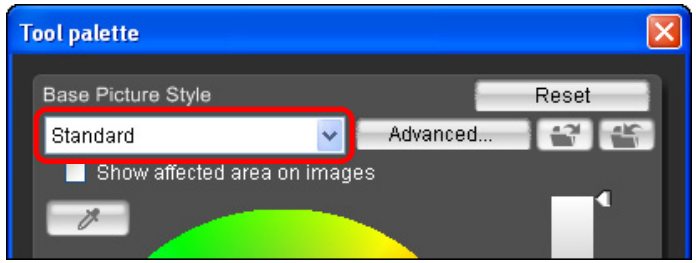
Setting the Image Characteristics

You can adjust the image characteristics by using the various functions of the [Tool palette].
All the adjustments made with the functions in the [Tool palette] become the image characteristics of the Picture Style file.

Selecting a Picture Style to Be Used as a Basis

Select the Picture Style to become the basis of the adjustments from the 5 preset (except Monochrome) Picture Styles (Standard, Portrait, Landscape, Neutral and Faithful).
You can also register and use a Picture Style file effective for the scene that you have downloaded from Canon's web site.

Select a Picture Style.



➜The selected Picture Style is applied to the image.

Using a Downloaded Picture Style File Effective for the Scene

1 **Click the [ ] button.**

➜The [Open Picture Style file] window appears.

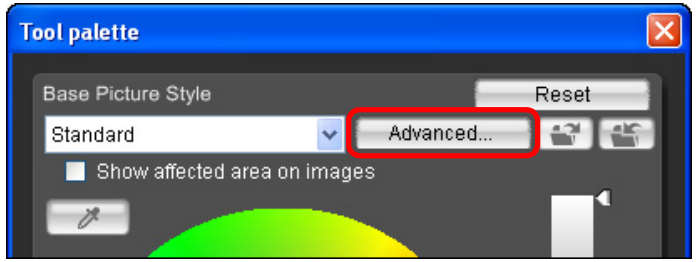
2 **Select a Picture Style file to be registered and click the [Open] button.**

➜The selected Picture Style file is applied to the image.

- Original Picture Style files created with PSE (p.15) can also be registered and used by following the procedure above.
- Picture Style files compatible with PSE are files with the ".PF2" extension.

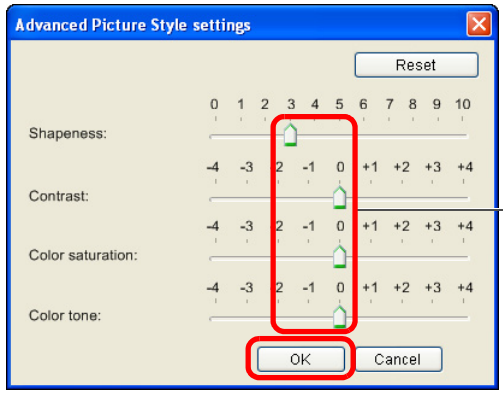
Setting Sharpness, Contrast, Color Saturation and Color Tone

1 **Click the [Advanced] button.**



➜The [Advanced Picture Style settings] window appears.

2 **Drag each slider and then click the [OK] button.**



Drag the sliders left or right

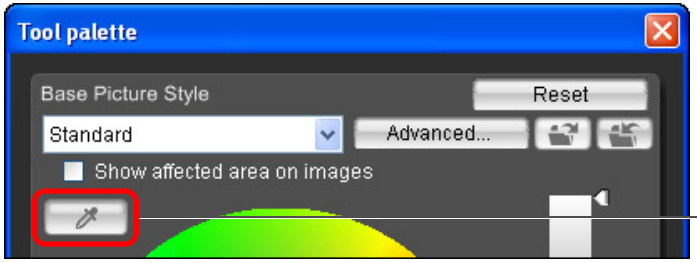
➜The settings are applied to the image.

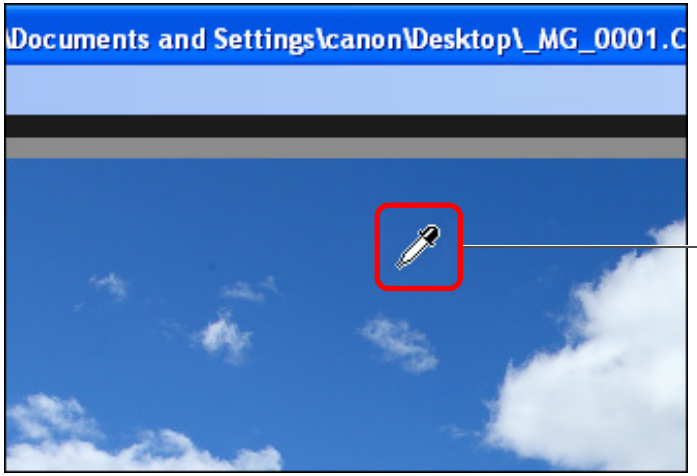
Making Minute Adjustments to Color

You can make minute adjustments to a color you have specified, using the hue, saturation and luminosity functions in order to get the color you want. You can also set a range for the effect on surrounding colors which occurs when you adjust the colors you have specified.

1 Specify the color you want to adjust.

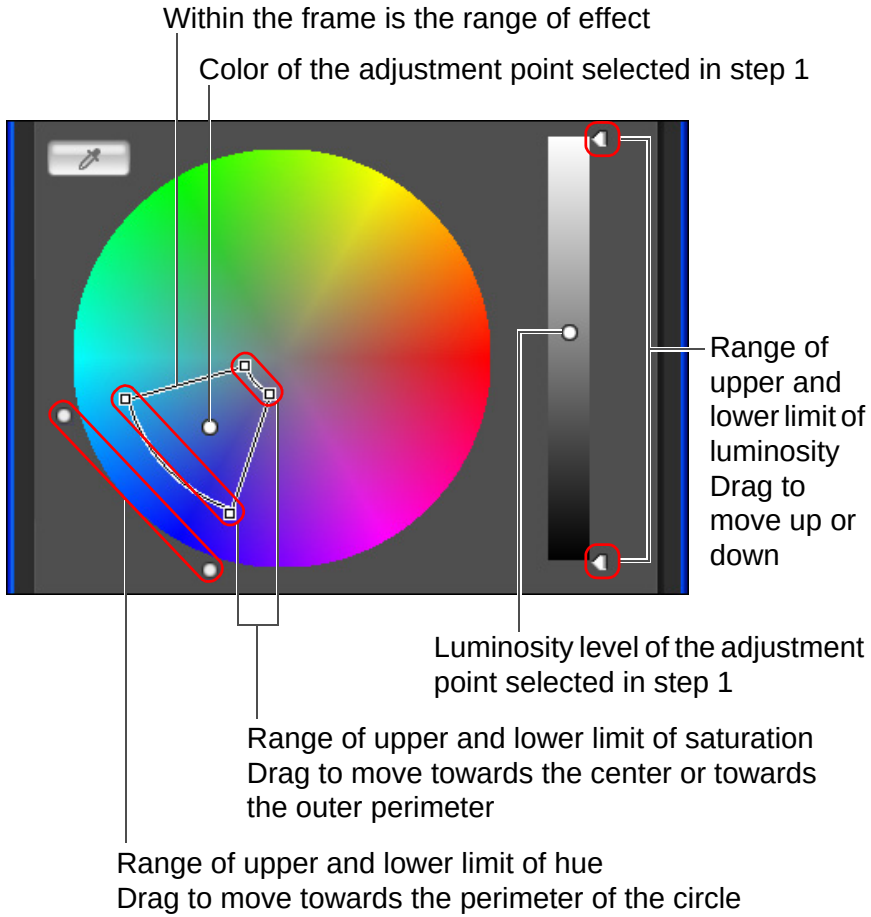
- Click the [ ] button and then click the color you want to adjust on the image.





➜The selected color is displayed as an adjustment point and as [ ] on the color wheel.

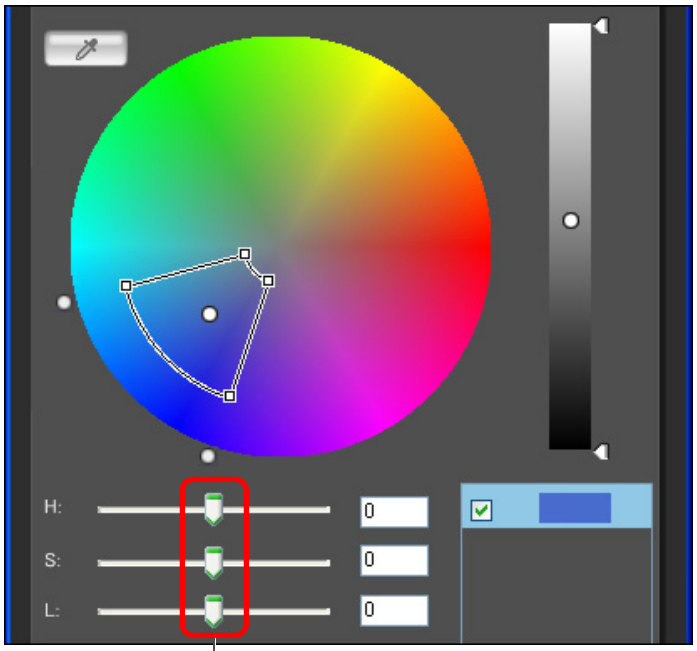
2 Determine the range of effect for the color you want to adjust.


Within the frame is the range of effect
Color of the adjustment point selected in step 1
Range of upper and lower limit of luminosity
Drag to move up or down
Luminosity level of the adjustment point selected in step 1
Range of upper and lower limit of saturation
Drag to move towards the center or towards the outer perimeter
Range of upper and lower limit of hue
Drag to move towards the perimeter of the circle

- The range of effect for hue, saturation and luminosity can be set within the limits below.

Setting	Range
Hue	30 - 180 degrees
Saturation	30 - 100
Luminosity	30 - 100

3 Adjust the color.



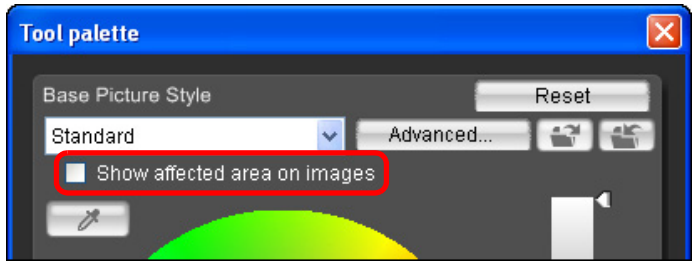
Drag to the left or right to adjust

➜ The color is adjusted to the range specified in step 2 and the color of the image changes.

- When dragging the slider, the point before adjustment [○] and the point after adjustment [●] will be displayed on the color wheel.

4 Check the range of application.

- If you checkmark [Show affected area on images], the range of application of the adjusted color blinks on the image.



5 Repeat steps 1 to 4 to adjust multiple colors.

- You can select and adjust colors for up to a maximum of 100 spots.

You can also specify the color to be adjusted in the different method from the one explained in step 1 (p.13).

Specifying the Color Directly

In addition to specifying the adjustment point by clicking the color on the image (p.11), you can also specify the color directly on the color wheel or by entering the color value.

Specifying the Color on the Color Wheel

1 Click the [ ] button (p.11).

2 Click the color you want to adjust on the color wheel.

➜The selected color is displayed as an adjustment point [ ] on the color wheel.

Specifying the Color by Entering the Color Value

1 Select the [Edit] menu ▸ [Specify the numerical values for color adjustment].

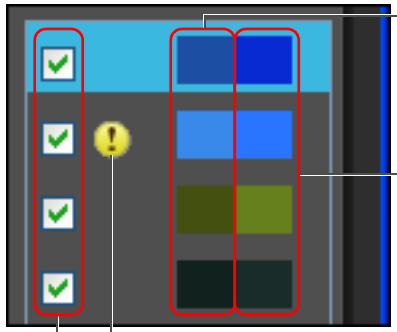
➜The [Specify the numerical values for color adjustment] window appears.

2 Enter the color value.

➜The entered color value is displayed on the color wheel as an adjustment point [ ] on the color wheel.

Displaying the Adjustment Color List and its Functions

In addition to displaying colors before and after adjustment, the adjustment color list (p.8) shows any overlapping of the range of effect of adjusted colors, and has a checkbox for applying adjusted colors and preventing adjusted colors from being applied.


Color before adjustment
Color after adjustment
Displays any overlapping in the range of effect of adjusted colors
Remove the checkmark to prevent the adjusted colors from being applied

Overlapping with the Range of Effect of Adjusted Colors

When you select an adjusted color from the list and [ ] appears, the range of effect (p.11) of the adjusted color is overlapping with the range of effect of other adjusted colors. Moreover, the overlapping areas will be displayed in gray on the color wheel and the color is applied by aggregating adjustment results.

To avoid an overlapping of the ranges of effect, select the subject color which has a [ ] and reset it so that the range of effect of the hue and saturation no longer overlap.

Deleting an Adjusted Color

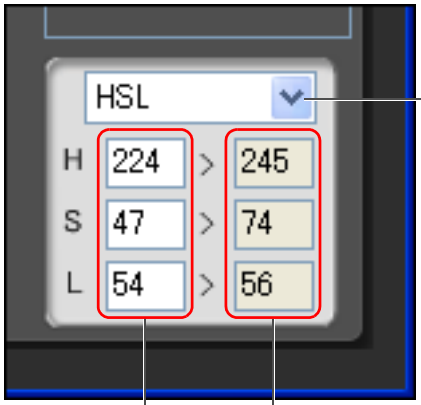
Be aware that you cannot recover deleted colors.

From the list, select the adjusted color you want to delete and then press the <Del> key on the keyboard.

➜The selected adjusted color is deleted.

Color Display Mode

You can select the color display mode which will be the basis for color adjustment from three options (HSL, Lab or RGB) as well as check values for adjusted colors.



Switches the color display mode

Color value after adjustment

Color value before adjustment

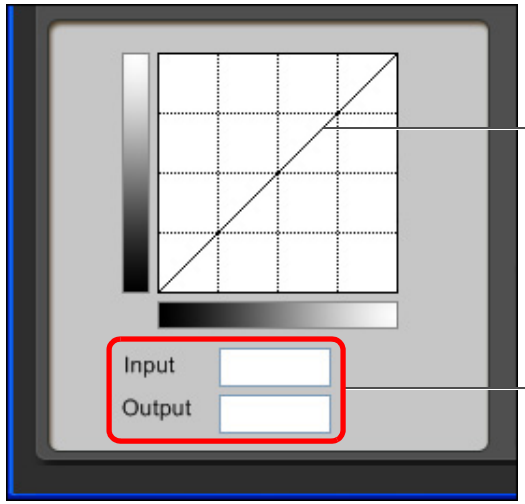
- When “HSL” is selected for the color display mode, you can only change the color value for before adjustment by entering a number.

- HSL is a color mode expressed by the three elements of hue (H), saturation (S) and luminosity (L).
- Lab is a color mode developed by the CIE (Commission Internationale d’Eclairage) where L displays lightness, a displays color elements from green to magenta and b displays color elements from blue to yellow.
- RGB is a color mode which expresses red (R), green (G) and blue (B), the three primary colors (additive colors) of the visible light spectrum.

Adjusting Brightness and Contrast (Gamma Characteristic)

You can adjust the brightness and contrast of a specific area using the tone curve.

Adjust the brightness and contrast.



Click to add a [□] (adjustment point) and adjust by dragging

The setting value of the selected point (you can also enter numerical values)

➜ The brightness and contrast of the image change.

- The horizontal axis shows the input level and the vertical axis shows the output level.
- The maximum number of [□] is 10.
- To delete a [□], select the [□] and then either press the <Del> key on the keyboard or double-click on the [□].

Saving the Adjustments as a Picture Style File

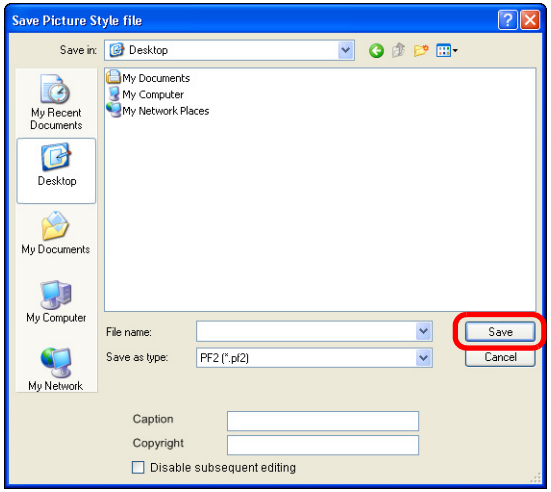
Adjustments specified in the [Tool palette] (p.9 to p.14) are saved on your computer as an original Picture Style file (extension ".PF2").
The adjustments are saved as a Picture Style file which is separate from the sample image, and the sample image used to perform the adjustments itself is not affected at all.

1 Click the [ ] button.

➜The [Save Picture Style file] window appears.

2 Specify the file name and save destination and then click the [Save] button.

- If you do not want to show the settings adjusted in PSE, checkmark [Disable subsequent editing] and save, so that the file cannot be opened again in PSE.



➜The file is saved as a Picture Style file in the specified save destination.

Even if you checkmark [Disable subsequent editing] and save, you can use the Picture Style file the same way as the Picture Style file without chekmarking and saved (Description on the right). However, you will no longer be able to open the Picture Style file in PSE. For this reason, we recommend that you save separately beforehand the Picture Style file without checkmarking [Disable subsequent editing].

Using a Picture Style File

Saved Picture Style files can be registered in the camera and applied to shot images, or applied to RAW images using Digital Photo Professional (hereinafter, "DPP") and Raw Image Task (hereinafter, "RIT").

Registering a Picture Style File to the Camera

Picture Style files saved on your computer can be registered to the "Camera that has a Picture Style function settings" (EOS-1Ds Mark III, EOS-1D Mark III, EOS-1D Mark II N, EOS 5D, EOS 40D, EOS 30D, EOS DIGITAL REBEL XSi/450D, EOS DIGITAL REBEL XTi/400D DIGITAL) using EOS Utility and applied to shot images.
Refer to "Applying Picture Style Files to the Camera" of "Chapter 2 Setting the Camera from Your Computer" in "EOS Utility Instruction Manual" (PDF electronic manual) for details on operation.

Using a Picture Style File with DPP

Picture Style files saved on your computer can be applied to RAW images using DPP.
Refer to "Using a Picture Style File" of "Chapter 3 Advanced Image Editing and Printing" in "Digital Photo Professional Instruction Manual" (PDF electronic manual) for details on operation.

Using a Picture Style File with RIT

Picture Style files saved on your computer can be applied to RAW images shot with the "Camera that has a Picture Style function settings" using RIT.
Refer to "Adjusting RAW Images" of "Chapter 3 Using High-Level Functions" in "ZoomBrowser EX Instruction Manual" (PDF electronic manual) for details on operation.

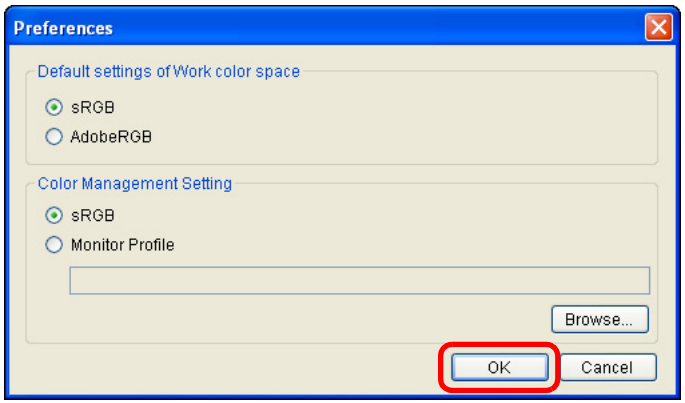
Preferences

You can perform color management settings such as specifying the work color space for the sample image displayed in the main window, or setting the profile for the monitor.

1 Select the [Tools] menu ▸ [Preferences].

➜The [Preferences] window appears.

2 Specify the required settings and then click the [OK] button.



➜The settings are applied.

If you have changed the work color space during the adjustment process, the adjustment point on the color wheel sometimes moves in conjunction with the selected work color space.

Exiting PSE

In the main window, select the [File] menu ▸ [Exit].

➜PSE exits.

Reference

Troubleshooting

If PSE is not operating correctly, refer to the items below.

Installation could not be completed correctly

- You cannot install the software if a user setting other than [Computer administrator] privilege or [Administrator] privilege is selected. Select the [Computer administrator] privilege user setting in Windows XP or the [Administrator] privilege user setting in Windows 2000. For detailed information on selecting the user setting, refer to your computer User's Manual.

PSE does not work

- PSE does not operate correctly on a computer if its system requirements does not meet. Use PSE on a computer with compatible system requirements (p.2).
- Even if your computer has the RAM capacity (memory) described in the system requirements (p.2), if other applications are running at the same time as PSE, you may not have sufficient RAM (memory). Exit any applications other than PSE.

Images do not display properly

- Sample images that are not supported by PSE (p.2) do not display.

Deleting the Software (Uninstalling)

- Exit any applications before uninstalling the software.
- Log in under the Computer administrator/Administrator privileges when uninstalling the software.
- To prevent computer malfunctions, always restart your computer after you have uninstalled the software. Re-installing the software without first restarting your computer is particularly likely to result in computer malfunctions.

1 Select the [Start] button ▶ [All Programs] ▶ [Canon Utilities] ▶ [Picture Style Editor] ▶ [Picture Style Editor Uninstall].

2 Proceed with the uninstallation as directed by the on-screen messages.

➜The software is uninstalled.

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- Canon may change without notice the software specifications and contents of this Instruction Manual.
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